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DATE MAILED: 06/25/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/612,155	07/02/2003	Santos Burrola	DP-308860	4123	
22851	7590 06/25/2004		EXAM	EXAMINER	
DELPHI TECHNOLOGIES, INC. M/C 480-410-202			MICHALSKY, GERALD A		
PO BOX 505			ART UNIT	PAPER NUMBER	
TROY, MI			3753		

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)	11/1//			
	10/612,155	BURROLA ET AL.	$V \sim V$			
Office Action Summary	Examiner	Art Unit				
	Gerald A. Michalsky	3753				
The MAILING DATE of this communication a		h the correspondence addre	ess			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by star Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty od will apply and will expire SIX (6) MONT	ply be timely filed (30) days will be considered timely. THS from the mailing date of this commandoned (35 U.S.C. § 133).	nunication.			
Status						
1) Responsive to communication(s) filed on	·					
=#/ <u>-</u>	his action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me						
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	, 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application	Claim(s) <u>1-24</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withd	lrawn from consideration.					
5) Claim(s) is/are allowed.			-			
6)⊠ Claim(s) <u>1-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam						
10)☐ The drawing(s) filed on is/are: a)☐ a						
Applicant may not request that any objection to t			4.404(-1)			
Replacement drawing sheet(s) including the corr						
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action of form PTO	-102.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National St	tage			
Attachment(s)		(DTC 115)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date				
 2) Notice of Draftsperson's Patent Drawing Review (P10-946) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date 7/2/03 & 2/5/04. 		nformal Patent Application (PTO-1	152)			

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DETAILED ACTION

1. In claim 21, line 5, it is suggested that "be" be changed to –being--. In claim 22, line 1, it is suggested that "said" be inserted before "second".

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-2, 8-9, and 14-16 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Sudani et al.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sudani et al. These claims are met by Sudani et al except that the exhaust valve head in Sudani et al is not described as case hardened and the rod is not described as non-metallic. It would have been an obvious matter of design, well within the ambit of a person of ordinary skill in the art at the time the invention was made, to case harden the

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exhaust valve head or to form the rod of non-metallic material since applicants assert no criticality in these features.

- 6. Claims 1 and 8-20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Erickson et al.
- 7. Claims 17-22 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Schudt.
- 8. Claims 19-23 are rejected under 35 U.S.C. 102(b) as being anticipated by McAuliffe. These claims are anticipated by Figure 3 of McAuliffe.
- 9. Claims 19-23 are further rejected under 35 U.S.C. 102(e) as being clearly anticipated by Runge et al.
- 10. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over either McAuliffe or Runge et al. These claims are considered met by either Figure 3 of McAuliffe or Runge et al except for a case hardened exhaust valve head. It would have been an obvious matter of design, well within the ambit of a person of ordinary skill in the art at the time the invention was made to case harden the exhaust valve head of either Figure 3 of McAuliffe or Runge et al since applicants assert no criticality in this particular feature.
- 11. Claims 19-20 are further rejected under 35 U.S.C. 102(b) as being clearly anticipated by Slavin et al.
- 12. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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13. Claims 2-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no antecedent basis for "said end surface" in claim 2, line 5. In claim 4, "in" should be –is--.

14. Claims 5-7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gerald A. Michalsky whose telephone number is (703) 308-1049. The examiner can normally be reached on M-F 5:30 AM - 2 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (703) 308-1272. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gerald A. Michalsky Primary Examiner Art Unit 3753